

PSF 16 Channel Power Supply and Filter Pack 0-10V Dimming



Product Description

The PSF 16 Channel Lighting Controller† is a constant current LED Power Supply designed specifically for MRI Suites. This supply greatly frees up space near the penetration panel by combining DC power supply, linear constant current drivers, and filter into one convenient device while still providing 100+dB of shielding effectiveness. This compact power supply is fully integrated with all needed filters required for MRI Applications. Up to 4 independent lighting zones can be achieved with this single power supply. Light zones can be controlled with off the shelf 0-10V dimmers. Each of the 16 outputs are UL1310 Class 2 rated. All drive circuitry employs linear regulation and no pulse width modulation (PWM*).

Mechanical				
	Minimum	Typical	Maximum	Units
Overall Dimensions		10 x 13.5 x 5.875		inches
Construction	Aluminum / Stainless Steel			-
Product Weight	-	12	-	lbs

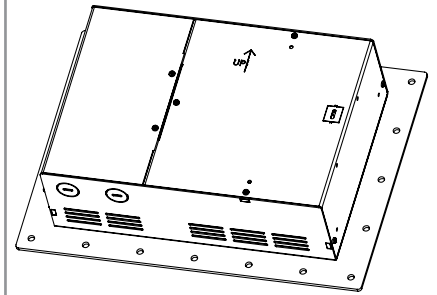
Electrical Input				
	Minimum	Typical	Maximum	Units
Input Voltage	110	-	240	Vac
Input Current	-	-	4.9	A
Input Power	-	-	360	W
BTU	-	-	375	BTU/hr
Input Frequency	50	-	60	Hz
Power Factor at 120 Vac / 230 Vac Input	0.9	-	0.95	-
Inrush Current at 120 Vac / 230 Vac Input	20	-	40	A

Electrical Output per Channel (Maximum 16 Channels)				
	Minimum	Typical	Maximum	Units
Output Voltage	12	-	42	Vdc
Max Output Current	-	700	-	mA
Output Power	-	-	29.4	W
Ripple Current	-	-	10	%
Outrush Current	-	-	1.8	A
Input/Output Efficiency	82	-	-	%
Open Circuit Output Voltage	-	-	42	Vdc
Bleed Off Time	-	-	1000	ms
Output Rise Time	-	-	500	ms

Dimming Inputs				
	Minimum	Typical	Maximum	Units
Dim Voltage	1	-	8	Vdc
Dim Value	1	-	100	% of Rated Current
Dim Source	-	-	150	µA

Compliance				
	Minimum	Typical	Maximum	Units
Regulatory Safety	-	Listed	-	UL 2108 CSA 22.2#250.2 IEC 61347-2
CE	-	Pending	-	-
RoHS	-	Pending	-	2011/65/EU
RF Shielding Effectiveness	100	-	-	db

1-05-000184



PDC Specification Submittal				
Job Name:				
Job Number:				
Model Numbers:		Fixture Type:		



Environmental

	Minimum	Typical	Maximum	Units
Ambient	0	-	30	C
Operating Temperature	0	25	40	C
Humidity	20	-	80	%
Warranty	3	-	-	Years

Installation Notes

A RF Filter is required for proper operation in the MRI suite

*PWM is known to cause image artifacts, audible noise and light flicker

Mechanical Diagram

